

CLAIMS

1. A manufacturing method for production of an edge-illuminated sign (L1, L2) with one or more figures having a large relief effect and a strong luminescence,
5 characterised in that a laser beam is controlled by a master program that makes the laser beam scan a line pattern at the same time as the laser beam is modulated by a frequency that controls the amplitude of the input power to the laser and thereby creates a screen pattern (2) at the same time as an image program is superposed the amplitude-controlled scanning frequency, so that the input laser power with amplitude variations
10 proportional to the desired figure will burn at different depths (d, d') and thereby give a relief (1) of the figure, in the sign (L1, L2).
2. A manufacturing method according to claim 1, characterised in that lines of the line pattern have a distance (a) from each other that is essentially equal to the length of
15 the screen pattern, which is about 0.1 mm.
3. A manufacturing method according to claim 1, characterised in that the lines of the line pattern have a distance from each other that may be considerably different from the length of the screen pattern.
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4. A manufacturing method according to claim 1, characterised in that the lines of the line pattern have a distance from each other that may be larger or smaller than the length of the screen pattern (2) obtained by the frequency that controls the amplitude of the input laser power and thereby can create screen patterns (2) of differing character.
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5. An edge-illuminated electric sign comprising a figure that is luminous when illuminated, characterised in that the figure has been applied to the electric sign (L) by a manufacturing method according to any one of the preceding claims.
- 30 6. An edge-illuminated electric sign, characterised in that it also comprises a film or foil with a screen pattern (2) produced by a manufacturing method according to the invention, in which the screen pattern has a fineness proportional to the luminescence desired in different positions of the background and that the fineness is also proportional to the distance to the illuminated edge.
- 35 7. An edge-illuminated electric sign according to claim 5, characterised by a first mounting device (4), that is adapted to position and/or protect light-emitting elements

(14) at or inside an edge portion (22) of said electric sign (L), said mounting device (4) preferably being a continuous element that is arranged along a main part of said edge portion (22).

5 8. An edge-illuminated electric sign according to claim 7, characterised in that said mounting device (4) is provided with at least one connecting means (9), arranged to enable positioning of the electric sign (L) at a desired location.

9. An electric sign according to claim 8, characterised in that said connecting
10 means (9) is a male or female element for interaction with an erecting device (3) having a therefore adapted male or female element (7), for mounting of the electric sign (L).

10. An electric sign according to any one of claims 8-9, characterised in that said mounting device (4) is provided with at least two, preferably three, connecting means
15 (9), arranged at different angles in relation to each other and preferably displaced by 90°.

11. An edge-illuminated electric sign according to any one of claims 7-10,
characterised in that said mounting device (4), at least at one of its end portions,
20 is provided with a connector (12; 13) that is connected to said light-emitting elements (14).

12. An edge-illuminated electric sign according to claim 11, characterised in that said mounting device (4) is provided with connectors (12; 13) at both ends.

25 13. An edge-illuminated electric sign according to any one of claims 11-12, characterised in that said erecting device (3) has at least one connector (19), preferably at one of its end portions, for interaction with said connector (12; 13) at said sign (L).

30 14. An edge-illuminated electric sign according to any one of claims 7-13, characterised in that said mounting device (4) is a, preferably extruded, profiled element.

35 15. An edge-illuminated electric sign according to any one of claims 7-14, characterised in that said erecting device (3) is a, preferably extruded, profiled element.